

CI/SfB		Yu4	(K2)
CAW G12			
Uniclass JM61:L68116			

## Product Information

### Description

SC902 is a low VOC, one coat, high build system, based on patented technology.

### Usage / Purpose

It provides a fast cure effective structural fire performance, for steelwork, up to a 120 minute fire rating.

SC902 is designed to provide upto 120 minutes fire resistance to 'I' section beams, columns, hollow columns, concrete filled hollow columns, cellular beams and solid steel rods. As a fast-track coating, all 120 minute loadings are possible to apply in a single coat and weather resistant in one hour.

### Finish

Can be applied to a smooth matt finish. A compatible top seal can be applied if a decorative finish is required.

### Colour

Part A: White  
Part B: Translucent Black  
Mixed: Off-white  
Cured: Off-white

### Packaging

Part A 22.3 kg pail  
Part B 2.7 kg tin

### Environmental Considerations

Low VOC and no solvent entrapment or prolonged solvent odour.

### Availability

Only available to Nullfire Specialist Contractors direct from Nullfire (see back of leaflet for address and telephone details).

## Usage Guidelines

### Protective Equipment

Use in well ventilated conditions and ensure all recommended protective equipment is worn during handling & use of this product. For full recommendation, refer to safety data sheet.

### Surface Preparation & Priming

- No primer required for C1 or C2 environments.

- Steelwork should be blast cleaned in dry atmospheric conditions using abrasive of suitable type and size, free from fines, moisture and oil. Continue blasting until finish complies with Swedish Standard SIS 05 59 00, preparation grade SA 2.5 or ISO 8501-1.
- Coat blasted steel within 2 weeks. All surfaces to be coated should be clean, dry and free from loose friable materials and any other contaminants likely to impair adhesion.
- Nullfire recommends and have tested a number of primers depending on the application. Refer to the Approved Primer list from Nullfire Technical Services.
- The system is not suitable for use over single pack primers and compatibility with 2 pack primers should be checked with Nullfire Technical Services.
- For use over galvanised surfaces or other substrates please contact Nullfire Technical Services.

### Application Conditions

- Ensure adequate through ventilation during application
- Application temperature range -5°C to +35°C, relative humidity <95% and a steel surface temperature at least 3°C above the dew point.

### Application Equipment

Graco Mark V or equivalent

### Mixing

- Always mechanically mix product in full pack volumes.
- Ensure the two components are thoroughly combined until a uniform colour is obtained.

### Application

- Keep all product containers closed when not in use.
- Part B is moisture sensitive and should remain tightly closed before use.
- The product is self-priming onto correctly prepared steelwork. Damaged primer does not need to be repaired in C1 or C2 environments.
- The product should be spray applied at close proximity, approximately 600 mm from the surface, to avoid dusting and promote good surface coalescence.
- Use of a wet film gauge is essential.

**Nullfire**  
Smart Protection

**SC902**

**Intumescent  
Steel Coating**

**Fast Track, On-Site**



### Key Benefits Summary

- Fast cure, even below 0°C, touch dry in 1 hour
- Early weather resistance, shower proof within 1 hour
- Self-priming system tolerant of light rusting to steel, up to 2 weeks post blasting
- High build potential with all ratings possible in one application
- Fire rating up to 120 minutes tested to BS476 and EN13381: Parts 6, 8 & 10
- Designed for on-site use
- Optifire®+ unique traceability identifier



ETA 20/1216



APPROVAL N° CF5144



# SC902

## Intumescent Steel Coating

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- As a fast-track coating, it is possible to apply single coat thicknesses significantly greater than traditional coatings, upto 10 mm without defect. All 120 minute loadings are possible to apply in a single coat; however, we recommend that the applicator select a target WFT in line with substrate geometry, access and level of finish required for the project.

Note: If the user needs to stop spraying for longer than 15 minutes flushing will be necessary.

### Site Work

- Galvanised bolts, once degreased, can be coated with no further preparation.
- Damaged coatings can be trimmed to a feathered edge and the material troweled in one application.
- The applied product once cured can be easily finished to a high level, by sanding or tooling with either electrical or hand tools.
- Repairs can be carried out using an SC900 Repair Kit.

### Cleaning

Flush spray equipment with FC150 or an equivalent xylene based solvent, do not use solvents which contain water, as these can result in premature curing of the product in the spray line. Contact Technical Support if unsure of compatibility of cleaning agents.

### Top Seal Requirements

Once DFT's have been achieved as specified, a Nullifire top seal can be applied. Ensure the SC902 is completely dry before applying top seal. For approved top seals, please consult Nullifire's Approved Topcoat List.

### Maintenance & Repair

Damaged areas should be abraded back to a sound surface. The surface should then be clean and dry before re-applying. The SC900 repair kit should be used (sold separately) for repairing scratches and chips. Once repaired top seal should be re-applied. Refer to Nullifire System SC900 Maintenance Instructions.

## Technical Data

Property	Result
Composition	A low VOC, high build formulation based on advanced hybrid technology
<b>Performance</b>	
'Prohesion' Cyclic Corrosion test to ASTM G85:2009 Annex A5 At 1000 hours Maximum extent of undercut corrosion 6.00 mm from scribe mark Note: The above test was carried out on a primer-less steel substrate	
Certification	Certifire CF5144, BS476 Part 20/21, EN13381: Part 6, 8 & 10 and Cellular Beams YB5 GOST Russian approval Australian standards AS4100 and AS1530 Japanese standard JIS A1304 (for other certification requirements, contact Nullifire)
Building Classification	C1, C2, C3, C4 and C5 environments For full details, please consult Nullifire Specification Guidelines.
<b>Properties (Typical Values)</b>	
Specific Gravity	Part A: 1.55 ±0.02 Part B: 0.99 ±0.01 Mixed: 1.46 ±0.02
Volume Solids	85% ±3%
VOC	137 g/litre
Mix Ratio	By Weight 100:12 By Volume 5.6:1
Gel Time (Liquid to Gel)	90 - 120 minutes
Pot-life or Sprayable Life	60 minutes
Theoretical Coverage	1,750 g/m <sup>2</sup> based on an applied 1.00 mm dry film thickness
Storage	Store in secure, dry warehouse conditions between +0°C and +35°C
Shelf Life (at +20°C)	12 months when stored as recommended in original unopened container

### Specification

A Tremco CPG UK Limited Representative will provide a specification for each project. Tremco CPG UK Limited accepts no responsibility for defects arising from failure to follow the specification.

### Health & Safety Precautions

Safety data sheet must be read and understood before use.  
Flammable- keep away from open flames and other ignition sources.

### Technical Service

Tremco CPG UK Limited has a team of experienced Technical Sales Representatives who provide assistance in the selection and specification of products. For more detailed information, service and advice, please call Customer Services on 01942 251400.

### Guarantee / Warranty

Tremco CPG UK Limited products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with Tremco CPG UK Limited written instructions and (b) in any application recommended by Tremco CPG UK Limited, but which is proved to be defective, will be replaced free of charge.  
No liability can be accepted for the information provided in this leaflet although it is published in good faith and believed to be correct.  
Tremco CPG UK Limited reserves the right to alter product specifications without prior notice, in line with Company policy of continuous development and improvement.



# SC902

## Intumescent Steel Coating

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### Top Seal Requirements

Once DFT's have been achieved as specified, TS134 Top Seals can be applied. Ensure the SC902 is completely cured before applying top seal.

ETAG018: Part 2 Condition	Description of Environment	Example	Approved Topseals
X: Exposed (also qualifies for Y & Z)	Exposure to rain Exposure to UV Uncontrolled humidity Uncontrolled temperature	Fully external steelwork Exposed perimeter steel Open construction site	Consult ETA or Nullifire Technical Department
Y: Semi-exposed (also qualifies for Z)	Uncontrolled humidity Uncontrolled temperature No exposure to rain Limited exposure to UV	Car park Undercrofts Areas under a canopy	Not required (consider other factors)
Z1: Humid internal (also qualifies for Z2)	Humidity over 85% RH Temperature above 0°C	Plant rooms, Basements, Warehouse and production	Not required (consider other factors)
Z2: Dry internal	Humidity below 85% RH Temperature above 0°C	Office, Hospitals, Schools, Airports	Not required Decorative only